

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



Attorney Docket No. 1012-066 (99-66)

**DECLARATION**

As a below-named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and joint Inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: Method and System for the In Situ Synthesis of a Combinatorial Library of Supported Catalyst Materials, the specification of which was filed on March 1, 2000 as Application No. 09/516,669 and was amended on March 19, 2001, October 17, 2001, April 22, 2002, October 15, 2002 and March 10, 2003.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**Prior Foreign Application(s)**

| Country | Application No. | Date of Filing | Priority Claimed Under 35 USC 119                        |
|---------|-----------------|----------------|--|
|         |                 |                | Yes <input type="checkbox"/> No <input type="checkbox"/> |
|         |                 |                | Yes <input type="checkbox"/> No <input type="checkbox"/> |

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

| Application No. | Filing Date |
|-----------------|-------------|
|                 |             |
|                 |             |

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

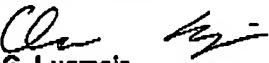
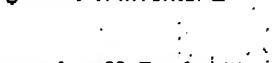
| Application No. | Date of Filing | Status  |
|-----------------|----------------|---|
|                 |                | Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned <input type="checkbox"/> |
|                 |                | Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned <input type="checkbox"/> |

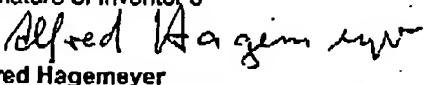
**Power of Attorney:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Eric M. Dobrusin (Reg. No. 33,867)  
 Scott A. Chapple (Reg. No. 46,287)  
 Jenny Lee (Reg. No. 46,865)  
 Theresa Orr (Reg. No. 34,890)  
 Ronald A. Krasnow (Reg. No. 33,321)  
 Paul A. Stone (Reg. No. 38,628)  
 James H. Ackley (Reg. No. 45,695)

|                         |  |                                     |                                   |                   |
|-------------------------|--|-------------------------------------|-----------------------------------|-------------------|
| Full Name of Inventor 1 | Last Name<br>Lugmair                                     | First Name<br>Claus                 | Middle Name or Initial<br>G.      |                   |
| Residence & Citizenship | City<br>San Jose   | State/Foreign Country<br>California | Country of Citizenship<br>US      |                   |
| Post Office Address     | Post Office Address<br>4864 National Avenue              | City<br>San Jose                    | State/Country<br>CA               | Zip Code<br>95124 |
| Full Name of Inventor 2 | Last Name<br>Poojary                                     | First Name<br>Damodara              | Middle Name or Initial<br>M.      |                   |
| Residence & Citizenship | City<br>Cupertino  | State/Foreign Country<br>California | Country of Citizenship<br>India   |                   |
| Post Office Address     | Post Office Address<br>20677 Forge Way, Apt. 219         | City<br>Cupertino                   | State/Country<br>CA               | Zip Code<br>95014 |
| Full Name of Inventor 3 | Last Name<br>Hagemeyer                                   | First Name<br>Alfred                | Middle Name or Initial            |                   |
| Residence & Citizenship | City<br>Sunnyvale  | State/Foreign Country<br>California | Country of Citizenship<br>Germany |                   |
| Post Office Address     | Post Office Address<br>655 S. Fair Oaks Ave., Apt. J-302 | City<br>Sunnyvale                   | State/Country<br>CA               | Zip Code<br>94086 |
| Full Name of Inventor 3 | Last Name<br>Giaquinta                                   | First Name<br>Daniel                | Middle Name or Initial<br>M.      |                   |
| Residence & Citizenship | City<br>Mountain View                                    | State/Foreign Country<br>California | Country of Citizenship<br>US      |                   |
| Post Office Address     | Post Office Address<br>149 Jasmine Court                 | City<br>Mountain View               | State/Country<br>CA               | Zip Code<br>94043 |

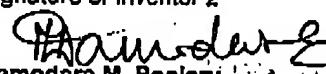
I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

|  |   |
|--|---|
| Signature of Inventor 1<br> | Signature of Inventor 2<br> |
| Claus G. Lugmair   | Damodara M. Poojary   |
| Date 4/14/03   | Date  |

|  |   |
|--|---|
| Signature of Inventor 3<br> | Signature of Inventor 4<br> |
| Alfred Hagemeyer   | Daniel M. Giaquinta   |
| Date 03/21/03  | Date 3/20/03  |

|                         |   |                                     |  |
|-------------------------|---|-------------------------------------|--|
| Full Name of Inventor 1 | Last Name<br>Lugmair                                    | First Name<br>Claus                 | Middle Name or Initial<br>G.             |
| Residence & Citizenship | City<br>San Jose  | State/Foreign Country<br>California | Country of Citizenship<br>US             |
| Post Office Address     | Post Office Address<br>4864 National Avenue             | City<br>San Jose                    | State/Country<br>CA Zip<br>Code<br>95124 |
| Full Name of Inventor 2 | Last Name<br>Poojary                                    | First Name<br>Damodara              | Middle Name or Initial<br>M.             |
| Residence & Citizenship | City<br>Cupertino                                       | State/Foreign Country<br>California | Country of Citizenship<br>India          |
| Post Office Address     | Post Office Address<br>20677 Forge Way, Apt. 219        | City<br>Cupertino                   | State/Country<br>CA Zip<br>Code<br>95014 |
| Full Name of Inventor 3 | Last Name<br>Hagemeyer                                  | First Name<br>Alfred                | Middle Name or Initial                   |
| Residence & Citizenship | City<br>Sunnyvale                                       | State/Foreign Country<br>California | Country of Citizenship<br>Germany        |
| Post Office Address     | Post Office Address<br>655 S. Fair Oaks Ave., Apt J-302 | City<br>Sunnyvale                   | State/Country<br>CA Zip<br>Code<br>94086 |
| Full Name of Inventor 3 | Last Name<br>Giaquinta                                  | First Name<br>Daniel                | Middle Name or Initial<br>M.             |
| Residence & Citizenship | City<br>Mountain View                                   | State/Foreign Country<br>California | Country of Citizenship<br>US             |
| Post Office Address     | Post Office Address<br>149 Jasmine Court                | City<br>Mountain View               | State/Country<br>CA Zip<br>Code<br>94043 |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

|                         |  |
|-------------------------|--|
| Signature of Inventor 1 | Signature of Inventor 2  |
| Claus G. Lugmair        |  |
| Date                    | 11/10/03   |

|                         |                         |
|-------------------------|-------------------------|
| Signature of Inventor 3 | Signature of Inventor 4 |
| Alfred Hagemeyer        | Daniel M. Giaquinta     |
| Date                    |                         |



Practitioner's Docket N : 1012-066(99-66)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lugmair, Claus G.; Poojary, Damodara M.; Hagemeyer,  
Alfred; Giaquinta, Daniel M.

Application No.: 09/516,669

Group No.: 1755

Filed: 03/01/2000

Examiner: E. Wood

For: METHOD AND SYSTEM FOR THE IN SITU SYNTHESIS OF A  
COMBINATORIAL LIBRARY OF SUPPORTED CATALYST MATERIALS

Commissioner for Patents  
Washington, D.C. 20231

ASSENT OF ASSIGNEE TO CORRECTION  
AND ADDITION OF INVENTOR

Name of Assignee:

Symyx Technologies, Inc.

Address of Assignee:

3100 Central Expressway  
Santa Clara, CA 95051

Assignment was recorded on July 18, 2000 at:

Reel 011032  
Frame 0168

Assignee hereby assents to the correction and addition of inventor, Daniel M.  
Giaquinta filed herewith.

Assignee hereby assents to the correction of citizenship information of inventor  
Alfred Hagemeyer and Damodara Poojary filed herewith.

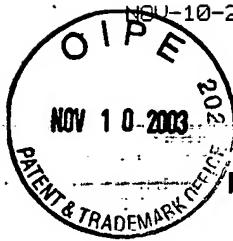
Date: April 15, 2003

Name: Paul A. Stone

Title: VP, Chief Patent Counsel

Signature: Paul A. Stone

(Assent of Assignee to correction and/or Addition of Inventor(s)--page 1)



Practitioner's Docket No. 1012-066(99-66) PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lugmair, Claus G.; Poojary, Damodara M.; Hagemeyer, Alfred; Giaquinta, Daniel M.

Application No.: 09/516,669

Group No.: 1755

Filed: 03/01/2000

Examiner: E. Wood

For: METHOD AND SYSTEM FOR THE IN SITU SYNTHESIS OF A COMBINATORIAL LIBRARY OF SUPPORTED CATALYST MATERIALS

**Commissioner for Patents**  
Washington, D.C. 20231

**AMENDMENT, REQUEST AND FEE TO ADD NAME OF INVENTOR OF INVENTION ORIGINALLY DISCLOSED AND NOW BEING CLAIMED-- NONPROVISIONAL APPLICATION (37 C.F.R. section 1.48(c)) AND TO CORRECT ERRORS IN CITIZENSHIP INFORMATION OF ORIGINAL INVENTORS**

1. This amendment and request under 37 C.F.R. section 1.48(c) is to add the name of Daniel M. Giaquinta as an inventor of the invention now being claimed and to correct errors in citizenship information previously provided for original inventors Alfred Hagemeyer and Damodara Poojary. Mr. Hagemeyer is a citizen of Germany and Mr. Poojary is a citizen of India.

**CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))**

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

[X] deposited with the United States Postal Service with sufficient postage as Express Mail No. EV342875849US in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231.

Date: 04-21-03**FACSIMILE**

transmitted by facsimile to the Patent and Trademark Office.

Roni L. Masquelle  
Signature  
Roni L. MASQUELLE  
(type or print name of person certifying)

(Amendment, Petition and Fee to Add Names of Inventor(s) of Invention Originally Disclosed and Now Being Claimed--Nonprovisional Application (37 C.F.R. 1.48(c))--page 1)

**2. --Claim(s) Now on File**

The claim(s) in this application are as follows:

claims 74 and 113-130 filed on March 19, 2001, with claims 74 and 121-122 amended on October 17, 2001.

claims 163-170 filed on October 17, 2001.

claims 171-178 filed on April 22, 2002.

claims 179-184 filed on October 15, 2002.

claims 185-191 filed on March 10, 2003.

**3. Statement From Each Person Being Added As Inventor (37 CFR section 1.48(c)(1)) and Statement From Each Person Whose Citizenship Information Is Being Corrected**

Attached is a statement from Daniel M. Giaquinta stating that the amendment is necessitated by amendment of the claims and that the inventorship error occurred without deceptive intent on his part.

Attached is a statement from Alfred Hagemeyer stating that he is a citizen of Germany and not United States as set forth in the prior declaration and that this error occurred without deceptive intent on his part.

Attached is a statement from Damodara Poojary stating that he is a citizen of India and not United States as set forth in the prior declaration and that this error occurred without deceptive intent on his part.

**4. Declaration (37 CFR section 1.48(c)(2))**

Attached is a declaration by the actual inventors as required by section 1.63 (or as permitted by sections 1.42, 1.43 or 1.47).

**5. Assent of Assignee of Any Originally Named Inventor(s) (37 CFR section 1.48(c)(4))**

Attached is an Assent of Assignee to Correction and Addition of the Inventor.

**6. Fee (37 C.F.R. section 1.17(i))**

The fee required by 37 C.F.R. 1.17(i) is paid as follows:

Charge Account No. 50-0496 the sum of \$130.00.

Charge Account No. 50-0496 for any fee deficiency.

(Amendment, Petition and Fee to Add Names of Inventor(s) of Invention Originally Disclosed and Now Being Claimed—Nonprovisional Application (37 C.F.R. 1.48(c))—page 2)

Date:

Apr 12 2003

Eric M. Dobrusin  
Registration No. 33,867  
DOBRUSIN & THENNISCH PC  
401 S. Old Woodward Avenue, Suite  
311  
Birmingham, MI 48009  
248-593-9900  
Customer No. 25215

(Amendment, Petition and Fee to Add Names of Inventor(s) of Invention Originally Disclosed and Now Being  
Claimed--Nonprovisional Application (37 C.F.R. 1.48(c))--page 3)

Practitioner's Docket No. 10-2-066(99-66)

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lugmair, Claus G.; Poojary, Damodara M.; Hagemeyer, Alfred; Giaquinta, Daniel M.

Application No.: 09/516,669

Group No.: 1755

Filed: 03/01/2000

Examiner: E. Wood

For: METHOD AND SYSTEM FOR THE IN SITU SYNTHESIS OF A COMBINATORIAL LIBRARY OF SUPPORTED CATALYST MATERIALS

Commissioner For Patents  
Washington D.C. 20231

## STATEMENT BY INVENTOR

Dear Sir:

I, Daniel M. Giaquinta, declare that the addition of my name as an inventor is necessitated by amendment of the claims and that the inventorship error on the above-related application occurred without deceptive intent on my part.

Dated: 3/20/03

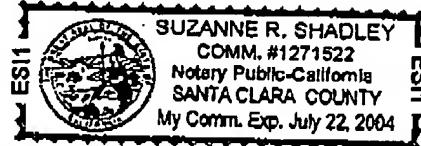
  
Daniel M. Giaquinta

STATE OF California  
COUNTY OF Santa Clara

STATE OF California  
COUNTY OF Santa Clara

On March 21st, 2003, before me, Suzanne R. Shadley, Notary Public, personally appeared Daniel M. Giaquinta, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature Suzanne R. Shadley (Seal)

NOV-10-2003 13:20

SYMYX TECHNOLOGIES INC

+1 408 773 4029

P.16

Practitioner's Docket No. 1012-066(99-66)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lugmair, Claus G.; Poojary, Damodara M.; Hagemeyer, Alfred; Giaquinta, Daniel M.

Application No.: 09/516,669

Group No.: 1755

Filed: 03/01/2000

Examiner: E. Wood

For: METHOD AND SYSTEM FOR THE IN SITU SYNTHESIS OF A COMBINATORIAL LIBRARY OF SUPPORTED CATALYST MATERIALS

Commissioner For Patents  
Washington D.C. 20231

STATEMENT BY INVENTOR

Dear Sir:

I, Alfred Hagemeyer, declare that the error relating to my citizenship information set forth in the prior declaration for the above-related application occurred without deceptive intent on my part. I am and have been a citizen of Germany, not United States.

Dated: 03/21/03

Alfred Hagemeyer  
Alfred Hagemeyer

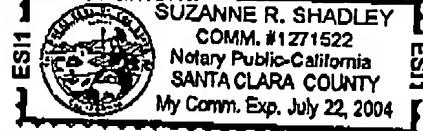
STATE OF California

COUNTY OF Santa Clara

On March 21, 2003, before me, Suzanne R. Shadley, Notary Public, personally appeared Alfred Hagemeyer, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature Suzanne R. Shadley



Practitioner's Docket N . 1012-066(99-66)

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lugmair, Claus G.; Poojary, Damodara M.; Hagemeyer, Alfred;  
Giaquinta, Daniel M.

Application No.: 09/516,669

Group No.: 1755

Filed: 03/01/2000

Examiner: E. Wood

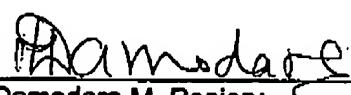
For: METHOD AND SYSTEM FOR THE IN SITU SYNTHESIS OF A  
COMBINATORIAL LIBRARY OF SUPPORTED CATALYST MATERIALS

Commissioner For Patents  
Washington D.C. 20231

## STATEMENT BY INVENTOR

Dear Sir:

I, Damodara M. Poojary, declare that the error relating to my citizenship information set forth in the prior declaration for the above-related application occurred without deceptive intent on my part. I am and have been a citizen of India, not United States.

Dated: 1/9/03
  
 Damodara M. Poojary
STATE OF CaliforniaCOUNTY OF Santa Clara

On April 9, 2003, before me, Cetta McCarthy, Notary Public, personally appeared Damodara M. Poojary, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Signature Cetta McCarthy (Seal)